| PAIENI COOPERATION TREATT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |                                                               |                                                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|--|
| From the INTERNATIONAL SEARCHING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | G AUTHORITY                                                        |                                                               |                                                              |  |
| To: CHO, In-jae  NEWKOREA INTERNATIONAL PATENT & LAW OFFICE 3rd Fl., Janghyun Bidg., 637-23, Yeoksam-dong, Gangnam-gu Seoul 135-909 Republic of Korea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    | PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY |                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |                                                               |                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    | Date of mailing (day/month/year) 1                            | 5 DECEMBER 2005 (15.12.2005)                                 |  |
| Applicant's or agent's file referen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ce                                                                 | FOR FURTHER AC                                                | TION ·                                                       |  |
| PP05-0138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    | S                                                             | See paragraph 2 below                                        |  |
| International application No. PCT/KR2005/00316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | International filing date                                          | (day/month/year)<br>2005 (23.09.2005)                         | Priority date(day/month/year) 24 SEPTEMBER 2004 (24.09.2004) |  |
| International Patent Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                                               | 24 BEI TEMBER 2001 (24.03.2001)                              |  |
| IPC7 G02F 1/1335                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (11 C) of both hallonal classific                                  |                                                               |                                                              |  |
| Applicant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |                                                               |                                                              |  |
| LG CHEM, LTD. et al                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                    |                                                               |                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |                                                               |                                                              |  |
| 1. This opinion contains indicati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ions relating to the following iter                                | ms:                                                           |                                                              |  |
| Box No. 1 Basis of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Box No. I Basis of the opinion                                     |                                                               |                                                              |  |
| Box No. II Priority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Box No. II Priority                                                |                                                               |                                                              |  |
| Box No. III Non-establishment of opinion with regard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    | rd to novelty, inventive                                      | tep and industrial applicability                             |  |
| Box No. IV Lack of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | unity of invention                                                 |                                                               |                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ed statement under Rule 43bis.10<br>and explanations supporting su |                                                               | elty, inventive step or industrial applicability;            |  |
| l —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | documents cited                                                    |                                                               |                                                              |  |
| Box No. VII Certain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | defects in the international app                                   | lication                                                      |                                                              |  |
| Box No. VIII Certain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | observations on the internationa                                   | l'application                                                 |                                                              |  |
| 2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220. |                                                                    |                                                               |                                                              |  |
| 3. For further details, see notes to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | o Form PCT/ISA/220.                                                | ·                                                             | (2005.10.1.6                                                 |  |

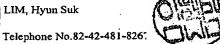
Name and mailing address of the ISA/KR

Facsimile No. 82-42-472-7140

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Date of completion of this opinion 14 DECEMBER 2005 (14.12.2005)

Authorized officer



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003164

| Bo | x No. I Basis of this opinion                                                                                                                                                                                                                                                                                                                                     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                                                                                                                                                                                                   |
| 1. | With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.                                                                                                                                                                   |
|    | This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under                                                                                                                                          |
|    | Rules 12.3 and 23.1(b)).                                                                                                                                                                                                                                                                                                                                          |
| 2. | With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:                                                                                                                                                                    |
|    | a. type of material                                                                                                                                                                                                                                                                                                                                               |
|    | a sequence listing table(s) related to the sequence listing                                                                                                                                                                                                                                                                                                       |
|    | lable(s) related to the sequence having                                                                                                                                                                                                                                                                                                                           |
|    | b. format of material                                                                                                                                                                                                                                                                                                                                             |
|    | on paper                                                                                                                                                                                                                                                                                                                                                          |
|    | in electronic form                                                                                                                                                                                                                                                                                                                                                |
|    | c. time of filing/furnishing                                                                                                                                                                                                                                                                                                                                      |
|    | contained in the international application as filed.                                                                                                                                                                                                                                                                                                              |
|    | filed together with the international application in electronic form.                                                                                                                                                                                                                                                                                             |
|    | furnished subsequently to this Authority for the purposes of search.                                                                                                                                                                                                                                                                                              |
| 3. | In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. | Additional comments:                                                                                                                                                                                                                                                                                                                                              |
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### 10/593621 IAP9/Rec'd PCT/PTO 21 SEP 2006

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003164

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| Novelty (N)                   | Claims 1-20        | YES |
|-------------------------------|--------------------|-----|
|                               | Claims NONE        | МО  |
| Inventive step (IS)           | Claims 2-17, 19-20 | YES |
| •                             | Claims 1, 18       | NO  |
| Industrial applicability (IA) | Claims 1-20        | YES |
|                               | Claims NONE        | ио  |

#### 2. Citations and explanations:

D1: JP 13-129927 A (2001.05.25) D2: JP 15-185845 A (2003.07.03)

The present invention relates to an optical compensator film for an LCD designed to improve wide view angle. Especially, claims 1-17 contain the polymer base layer, the protective layer coated with organic/inorganic hybrid composition and the compensator film with multilayer structure which simultaneously comprises negative phase difference and phase difference with the face in the thickness direction. Claims 18-20 describe an LCD apparatus including the said compensator film.

1. Novelty:

None the cited prior arts describe the compensator film with multi-layer structure which comprises both negative phase difference and phase difference within the face in the thickness direction. Therefore, claims 1-20 comply with Article 33(2) PCT.

D1 discloses a liquid crystal display apparatus using the optical film and the LCD film including the protective layer. This device has such a characteristic that the phase difference value of the fatty acid cellulose ester film is 60nm - 250nm in the thickness direction represented by formula: Rt=( (nx+ny)/2-

D2 discloses a polarizing plate of an LCD that hardly generates uneven brightness, in which a transparent protective layer is laminated on at least a surface of a polarizing film.

(To be continued in the Supplemental Box)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003164

|   | INTERNATIONAL SEARCHING AS THOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |  |  |  |  |  |
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|   | Supplemental Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |  |  |  |  |  |
|   | In case the space in any of the preceding boxes is not sufficient.  Continuation of:                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |  |  |  |  |  |
|   | (Citations and explanations)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ic composition of the claimed                                                                           |  |  |  |  |  |
|   | When comparing the present invention with D1 & D2, the characterist invention, which comprises the protective layer coated with organic/inorgan polymer coated layer of which the phase difference value in the thickness di Rt= $(nz-(nx+ny)/2)\times d$ is a negative signal, can be easily invented by a pers compositional combination of D1 ( the composition of fatty acid cellulose e and D2 ( composition of a transparent protective layer ). Thus, the present involving 1, 18 do not fulfill the requirements of Article 33(3) PCT. | rection represented by formula:<br>on skilled in the art through the<br>ster film and protective layer) |  |  |  |  |  |
| Ì | 3. Industrial Applicability:<br>Claims 1-20 fulfill the requirements of Article 33(4) PCT.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |  |  |  |  |  |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         |  |  |  |  |  |
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/003164

| Supplemental Box                                                                     |   |  |  |  |  |
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| In case the space in any of the preceding boxes is not sufficient.  Continuation of: |   |  |  |  |  |
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